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INDEX AND REVIEW SUPPLEMENT: VOLUME III

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Analysis of abstracts according to their Main and Secondary Classification numbers
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Van Klinken, J., Pensioenraad, The Hague
Varadhan, S. R. S., Indian Statist. Inst., Calcutta
Vincze, I., Math. Inst. Hung. Acad. Sci., Budapest
Vogel, W., Tubingen Univ., Germany
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Walsh, J. E., 2500 Colorado Ave., Santa Monica, Calif.
Walter, E., Max Planck Inst., Gottingen, Germany
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Watson, G. S., Research Triangle Inst., Durham NC, USA
Watterson, G. A., Australian Nat. Univ., Canberra
Weiss, G. H., 36 Wall St., New York 5, NY
Wells, W. T., N. Carolina State Coll., Raleigh, USA
Wette, R., Zoological Inst., Heidelburg, Germany
White, J. E., Gen. Motors Res. Labs., Warren, Mich., USA
Wilkie, D., University College, London, GB
Williams, E. J., N. Carolina State Coll., Raleigh, USA
Williams, J. S., Res. Triangle Inst., N. Carolina
Williams, W. H., Bell Telephone Labs., Murray Hill, NJ
Wold, H. O., Uppsala Univ., Sweden
Wolins, L., Iowa State Univ., Ames, USA
Wonnacott, T. H., Wesleyan Univ., Middletown, Conn.

Yáñez, I., Inst. Invest. Estadíst., Madrid
Yates, F., Rothamsted Exp. Station, Harpenden, Herts, GB
Young, D. H., Unilever, Bedford, GB

Zellen, M., Nat. Bureau of Standards, Washington
Zinger, A., Univ. Montreal, Quebec
Zítek, F., Math. Inst., Czech Acad. Sci., Prague
Zubrzycki, S., Math. Inst. Polish Acad. Sci., Warsaw

LIST OF PUBLICATIONS FOR REGULAR SCANNING

The following list of publications in the statistical and allied fields will be examined regularly for papers which should be abstracted for this Journal. Other journals will also be scrutinised from time to time and a check maintained by scanning other relevant abstracting journals. In addition, abstracts will be included of special collections of papers as published in reports of conferences, symposia and seminars together with the published reports of experiment and other research stations. The coverage of this Journal amounts to 500 sources of publication

Abhand. Math. Hamburg	Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg	Germany
Acta Acad. Cient., Lima	Acta de la Academia Cientifica, Lima	Peru
Acta Math., Stockh.	Acta Mathematica	Sweden
Acta Math. Acad. Sci. Hung.	Acta Mathematica Academiae Scientiarum Hungaricae	Hungary
Acta Math. Sinica	Acta Mathematica Sinica	China
Acta Pontif. Acad. Sci.	Acta Pontificiae Academiae Scientiarum	Italy
Advanced Management	Advanced Management	USA
Advanc. Enzymol.	Advances in Enzymology and Related Subjects	USA
Advanc. Protochem.	Advances in Protochemistry	USA
Advanc. Vet. Sci.	Advances in Veterinary Science	USA
Agric. Engng., St Joseph, Mich.	Agricultural Engineering	USA
Agriculture, London	Agriculture (Min. of Agric.)	Great Britain
Agron. J.	Agronomy Journal	USA
Allg. Statist. Arch.	Allgemeine Statistisches Archiv	Germany
Amer. Econ. Rev.	American Economic Review	USA
Amer. Heart J.	American Heart Journal	USA
Amer. J. Clin. Nutr.	American Journal of Clinical Nutrition	USA
Amer. J. Clin. Path.	American Journal of Clinical Pathology	USA
Amer. J. Digestive Diseases	American Journal of Digestive Diseases	USA
Amer. J. Hum. Genet.	American Journal of Human Genetics	USA
Amer. J. Hyg.	American Journal of Hygiene	USA
Amer. J. Math.	American Journal of Mathematics	USA
Amer. J. Med.	American Journal of Medicine	USA
Amer. J. Path.	American Journal of Pathology	USA
Amer. J. Physiol.	American Journal of Physiology	USA
Amer. J. Publ. Health	American Journal of Public Health	USA
Amer. J. Sci.	American Journal of Science	USA
Amer. J. Sociol.	American Journal of Sociology	USA
Amer. J. Trop. Med. Hyg.	American Journal of Tropical Medicine and Hygiene	USA
Amer. J. Vet. Res.	American Journal of Veterinary Research	USA
Amer. Nat.	American Naturalist	USA
Amer. Statistician	American Statistician	USA
Analyt. Chem.	Analytical Chemistry	USA
An. Soc. Cient. Argent.	Anales de la Sociedad Cientifica Argentina	Argentina
Ann. Acad. Sci. Fenn.	Annales Academiae Scientiarum Fennicae	Finland
Ann. Appl. Biol.	Annals of Applied Biology	Great Britain
Ann. Fac. Econ. Com. Catania	Annali della Facoltà di Economia e Commercio, Catania (University)	Italy
Ann. Fac. Econ. Com. Palermo	Annali della Facoltà di Economia e Commercio, Palermo (University)	Italy
Ann. Fac. Sci. Porto	Annaes da Faculdade de Ciências do Porto	Portugal
Ann. Hum. Genet.	Annals of Human Genetics (London)	Great Britain
Ann. Inst. Poincaré	Annales de l'Institut Henri Poincaré	France
Ann. Inst. Statist. Math., Tokyo	Annals of the Institute of Statistical Mathematics	Japan
Ann. Inst. Sup. Sci. Econ. Financ.	Annaes do Instituto Superior de Ciências Economicas e Financieras	Portugal
Ann. Ist. Statist. Bari	Annali dell'Istituto di Statistica, Bari (University)	Italy
Ann. Math.	Annals of Mathematics	USA

Ann. Math. Statist.	Annals of Mathematical Statistics	USA
Ann. N.Y. Acad. Sci.	Annals of the New York Academy of Science	USA
Ann. Sci. Éc. Norm. Sup., Paris	Annales Scientifiques de l'École Normale Supérieure	France
Ann. Sci. Écon. Appl.	Annales de Sciences, Économique Appliquées	France
Ann. Soc. Sci. Bruxelles, I	Annales de la Société Scientifique de Bruxelles—Serie 1	Belgium
Ann. Statist., Rome	Annali di Statistica (Istituto Centrale di Statistica, Roma)	Italy
Ann. Univ. Lyon, A	Annales de l'Université de Lyon—Section A	France
Ann. Univ. Sci. Budapest., Sect. Math.	Annales Universitatis Scientiarum Budapestiensis de Rolando Eötvös nominatae—Sectio Mathematica	Hungary
Annu. Rev. Physiol.	Annual Review of Physiology	USA
Aplik. Mat.	Aplikace Matematiky	Czechoslovakia
Appl. Sci. Res., Hague	Applied Scientific Research, The Hague	Netherlands
Appl. Statist.	Applied Statistics	Great Britain
Archimede	Archimede	Italy
Arch. Biochem. Biophys.	Archives of Biochemistry and Biophysics	USA
Arch. Math., Karlsruhe	Archiv der Mathematik	Germany
Ark. Mat.	Arkiv för Matematik	Sweden
Atti (mem.) Accad. Lincei	Atti della Accademia Nazionale dei Lincei	Italy
Atti Riun. Sci., Soc. Ital. Statist.	Atti della Riunione Scientifica, Società Italiana di Statistica, Roma	Italy
Aust. J. Agric. Res.	Australian Journal of Agricultural Research	Australia
Aust. J. Appl. Sci.	Australian Journal of Applied Science	Australia
Aust. J. Biol. Sci.	Australian Journal of Biological Sciences	Australia
Aust. J. Phys.	Australian Journal of Physics	Australia
Aust. J. Sci.	Australian Journal of Science	Australia
Aust. J. Statist.	Australian Journal of Statistics	Australia
Beil. Mber. Öst. Inst. Wirtschaftsf.	Beilagen zu den Monatsberichten des Österreichischen Institutes für Wirtschaftsforschung	Austria
Bell Lab. Record	Bell Laboratories Record	USA
Bell Syst. Monographs	Bell System Monographs	USA
Biol. Zent.	Biologisches Zentralblatt	Germany
Bell Syst. Tech. J.	Bell System Technical Journal	USA
Biometrics	Biometrics	USA
Biometrika	Biometrika	Great Britain
Biom.-Prax.	Biometrie-Praximetrie	Belgium
Biom. Zeit.	Biometrische Zeitschrift	Germany
Blä. Dtsch. Ges. Versich.-math.	Blätter der Deutschen Gesellschaft für Versicherungsmathematik	Germany
Bol. Fac. Filos. Ciênt. S. Paulo	Boletim da Faculdade de Filosofía, Ciências e Letras, São Paulo	Brazil
Bol. Inst. Actuar. Portug.	Boletim do Instituto dos Actuarios Portugueses	Portugal
Bol. Soc. Mat. Mexicana	Boletim de la Sociedad Matemática Mexicana	Mexico
Boll. Cent. Ric. Operat.	Bollettino del Centro per la Ricerca Operativa	Italy
Boll. Un. Mat. Ital.	Bollettino dell'Unione Matematica Italiana	Italy
Brit. J. Nutr.	British Journal of Nutrition	Great Britain
Brit. J. Prev. Soc. Med.	British Journal of Preventive and Social Medicine	Great Britain
Brit. J. Sociol.	British Journal of Sociology	Great Britain
Brit. J. Statist. Psychol.	British Journal of Statistical Psychology	Great Britain
Bull. Acad. Polon. Sci. III	Bulletin de l'Académie des Sciences (Classe 3)	Poland
Bull. Amer. Soc. Test. Mat.	Bulletin, American Society for Testing Materials	USA
Bull. Ass. Actuair. Suisses	Bulletin de l'Association des Actuaires Suisses	Switzerland
Bull. Calcutta Math. Soc.	Bulletin of the Calcutta Mathematical Society	India
Bull. Calcutta Statist. Ass.	Bulletin, Calcutta Statistical Association	India
Bull., CSIRO, Aust.	Bulletins, Commonwealth Scientific and Industrial Research Organisation	Australia
Bull. Indian Soc. Qual. Contr.	Bulletin, Indian Society of Quality Control	India
Bull. Indian Stand. Inst.	Bulletin, Indian Standards Institution	India
Bull. Inst. Égypte	Bulletin de l'Institut d'Égypte, Le Caire	Egypt
Bull. Jap. Statist. Soc.	Bulletin of the Japan Statistical Society	Japan

Bull. Math. Statist.	Bulletin of Mathematical Statistics, Research Association of Statistical Sciences	Japan
Bull. Nat. Inst. Sci. India	Bulletin, National Institute of Sciences of India	India
Bull. Nat. Soc. Med. Res.	Bulletin of the National Society for Medical Research	USA
Bull. Oxf. Univ. Inst. Statist.	Bulletin of the Oxford University Institute of Statistics	Great Britain
Bull. Res. Coun. Israel	Bulletin of the Research Council of Israel	Israel
Bull. Res. Inst. Kerala	Bulletin, Central Research Institute, Kerala (University)	India
Bull. Sci. Math.	Bulletin des Sciences Mathématique	France
Bull. Soc. Math. Belg.	Bulletin de la Société Mathématique de Belgique, Gembloux	Belgium
Bull. Soc. Math. France	Bulletin de la Société Mathématique de France	France
Cahiers Centre Rech. Opérat.	Cahiers du Centre d'etudes de Recherche Opérationelle	Belgium
Canad. J. Econ. Polit. Sci.	Canadian Journal of Economic and Political Science	Canada
Cancer Bull.	Cancer Bulletin	USA
Cancer, New York	Cancer (New York)	USA
Čas. pěst. mat.	Časopis pro pěstování matematiky	Czechoslovakia
Chem. Engng. Progr.	Chemical Engineering Progress	USA
Circulation	Circulation	USA
Clin. Chem.	Clinical Chemistry	USA
Colect. Estud.	Colectanea de Estudos	Spain
Coll. Mat.	Collectanea Matematica	Spain
Colloq. Math.	Colloquium Mathematicum	Poland
Comment. Math. Helvetia	Commentarii Mathematica Helvetia	Switzerland
Comment. Pontif. Acad. Sci.	Commentationes Pontificiae Academiae Scientiarum	Italy
Compos. Math. Groningen	Compositio Mathematica, Groningen	Netherlands
C.R. Acad. Sci. Paris	Comptes Rendus de l'Académie des Sciences, Paris	France
Cornell Vet.	Cornell Veterinarian	USA
Current Science	Current Science	India
Curso Mira Fernandes	Curso Mira Fernandes	Portugal
Czech. Math. J.	Czechoslovak Mathematical Journal	Czechoslovakia
Dacca Univ. Statist. Bull.	Dacca University Statistical Bulletin	Pakistan
Defense Sci. J.	Defense Science Journal	India
Demográfia	Demográfia	Hungary
Dokl. Akad. Nauk, SSSR	Doklady Akademiia Nauk, SSSR.	USSR
Dopov. Akad. Nauk. Ukrain, SSR	Dopovedy Akademiia Nauk., Ukrainskoj, SSR	USSR
Duke Math. J.	Duke Mathematical Journal	USA
Écon. Appl.	Économie Appliquée	France
Econ. Internazionale	Economia Internazionale	Italy
Econ. J.	Economic Journal	Great Britain
Écon. Leban. Arabe	L'Économie Lebanaise & Arabe, Beirut	Lebanon
Econ. Record	Economic Record	Australia
Econometrica	Econometrica	USA
Economica	Economica	Great Britain
Edinb. Math. Notes	Edinburgh Mathematical Notes	Great Britain
Égypte Contemp.	L'Égypte Contemporaine de Caire	Egypt
Egyptian Statist. J.	Egyptian Statistical Journal	Egypt
Ekon. Tidskr.	Ekonomisk Tidskrifts	Sweden
Elem. Math.	Elemente der Mathematik	Switzerland
Emp. J. Exp. Agric.	Empire Journal of Experimental Agriculture	Great Britain
Endocrinology	Endocrinology	USA
Engineer, London	Engineer	Great Britain
Engineering, London	Engineering	Great Britain
Ergebn. Naturw. Grenzgeb.	Ergebnisse der exakten Naturwissenschaften	Germany
Esta	Esta	Spain
Estadistica	Estadistica	USA
Euclides, Groningen	Euclides, Groningen	Netherlands
Eugen. Rev.	Eugenics Review	Great Britain
Evolution	Evolution	USA
Experientia	Experientia	Germany
Exp. Med. Surgery	Experimental Medicine and Surgery	USA

Food Res.	Food Research	USA
Food Tech.	Food Technology	USA
Ganita	Ganita, Lucknow-Allahabad (Universities)	India
Gaz. Mat.	Gazeta de Matemática	Portugal
G. Economisti	Giornale degli Economisti e Annali di Economia	Italy
G. Ist. Ital. Attuari	Giornale dell'Istituto Italiano degli Attuari	Italy
Genetics	Genetics	USA
Genus	Genus	Italy
Growth	Growth	USA
Harvard Busin. Rev.	Harvard Business Review	USA
Helvetica Phys. Acta	Helvetica Physica Acta	Switzerland
Heredity	Heredity	Great Britain
Hum. Biol.	Human Biology	USA
IFO-Studien	IFO-Studien	Germany
Illinois J. Math.	Illinois Journal of Mathematics	USA
Inc. Statist.	Incorporated Statistician	Great Britain
Indag. Math.	Indagationes Mathematicae, Amsterdam	Netherlands
Indian Coun. Agric. Res. Bull.	Indian Council of Agricultural Research: Bulletin	India
Indian Coun. Agric. Res. Statist. Newsletter	Indian Council of Agricultural Research: Statistical Newsletter	India
Indian Econ. J.	Indian Economic Journal	India
Indian Econ. Rev.	Indian Economic Review	India
Indian J. Agric. Econ.	Indian Journal of Agricultural Economics	India
Indian J. Phys.	Indian Journal of Physics	India
Indian J. Power & River Devel.	Indian Journal of Power and River Development	India
Indian J. Soc. Work	Indian Journal of Social Work	India
Indian Math. Soc. J.	Indian Mathematical Society Journal	India
Industr. Engng. Chem.	Industrial and Engineering Chemistry	USA
Industr. Qual. Contr.	Industrial Quality Control	USA
Industria, Milano	L'Industria	Italy
Ingen.-Arch.	Ingenieur-Archiv	Germany
Iowa Acad. Sci. J.	Iowa Academy of Science Journal	USA
Iowa Exp. Sta. Publ.	Iowa State College Experiment Station Publications	USA
Izv. Akad. Nauk, SSSR	Izvestiya Akademiia Nauk, SSSR	USSR
Izv. Akad. Nauk, Uzbek, SSR.	Izvestiya Akademiia Nauk, Uzbekskoj, SSR.	USSR
Jb. Nat.-Ökon. Statist.	Jahrbücher für Nationalökonomie und Statistik	Germany
Jber. Dtsch. Mathver.	Jahresbericht der Deutschen Mathematikervereinigung	Germany
J. Agric. Food Chem.	Journal of Agricultural and Food Chemistry	USA
J. Agric. Sci.	Journal of Agricultural Science	Great Britain
J. Amer. Pharm. Ass.	Journal of the American Pharmaceutical Association (Scientific Edition)	USA
J. Amer. Statist. Ass.	Journal, American Statistical Association	USA
J. Amer. Vet. Med. Ass.	Journal of American Veterinary Medicine Association	USA
J. Animal Sci.	Journal of Animal Sciences	USA
J. Appl. Physiol.	Journal of Applied Physiology	USA
J. Ass. Comp. Mach.	Journal of the Association of Computing Machinery	USA
J. Aust. Inst. Agric. Sci.	Journal of the Australian Institute of Agricultural Science	Australia
J. Aust. Math. Soc.	Journal of the Australian Mathematical Society	Australia
J. Biol. Chem.	Journal of Biological Chemistry	USA
J. Chronic Diseases	Journal of Chronic Diseases	USA
J. Clin. Invest.	Journal of Clinical Investigation	USA
J. Dairy Sci.	Journal of Dairy Science	USA
J. Ecology	Journal of Ecology	Great Britain
J. Econ. Ent.	Journal of Economic Entomology	USA

J. Exp. Educ.	Journal of Experimental Education	USA
J. Exp. Med.	Journal of Experimental Medicine	USA
J. Forestry	Journal of Forestry	USA
J. Gen. Physiol.	Journal of General Physiology	USA
J. Genet.	Journal of Genetics	India
J. Heredity	Journal of Heredity	USA
J. Hyg., Camb.	Journal of Hygiene, Cambridge	Great Britain
J. Industr. Econ.	Journal of Industrial Economics	Great Britain
J. Industr. Engng.	Journal of Industrial Engineering	USA
J. Indian Soc. Agric. Statist.	Journal of the Indian Society of Agricultural Statistics	India
J. Inst. Actuar.	Journal of the Institute of Actuaries	Great Britain
J. Inst. Actuar. Stud. Soc.	Journal of the Institute of Actuaries Students' Society	Great Britain
J. Madras Univ., B	Journal of Madras University, Section B	Great Britain
J. Mammalogy	Journal of Mammalogy	USA
J. Marine Res.	Journal of Marine Research	USA
J. Math. Pures Appl.	Journal de Mathématiques Pures et Appliquées	France
J. Math. Soc. Japan	Journal of the Mathematical Society of Japan	Japan
J. Nat. Cancer Inst.	Journal of the National Cancer Institute	USA
J. Nutrition	Journal of Nutrition	USA
J. Pharmacol.	Journal of Pharmacology and Experimental Therapeutics	USA
J. Plant Physiol.	Journal of Plant Physiology	USA
J. Polit. Econ.	Journal of Political Economy	USA
J. reine angew. Math.	Journal für reine und angewandte Mathematik	Germany
J. Res., Nat. Bur. Stand.	Journal of Research, National Bureau of Standards, Washington	USA
J. Roy. Soc., NSW	Journal of the Royal Society, N.S. Wales	Australia
J. R. Statist. Soc. A & B	Journal of the Royal Statistical Society (Series A & B)	Great Britain
J. Sci. Engng.	Journal of Science and Engineering	India
J. Sci. Industr. Res.	Journal of Scientific and Industrial Research	USA
J. Sci. Industr. Res., India	Journal of Scientific and Industrial Research	India
J. Soc. Statist. Paris	Journal de la Société Statistique de Paris	France
J. Statist. Social Inquiry Soc.	Journal of the Statistical and Social Inquiry Society of Ireland	Ireland
J. Univ. Baroda	Journal, Maharaja Sayajiroa, Baroda University	India
Kōdai, Tokyo Inst. Tech.	Kōdai Mathematical Seminar reports, Tokyo Institute of Technology	Japan
Magy. Tud. Akad. III *Oszt. Közl.*	Magyar Tudományos Akadémia Matematikai és Fizikai Osztályának Közleményei	Hungary
Management Sci.	Management Science	USA
Manager (India)	Manager	India
Manchester School	Manchester School of Economic & Social Studies	Great Britain
Matemática	Matemática, Notas del Instituto de Matemática Facultad de Ingeniería de Rosario	Argentine
Mat. Lapok	Matematikai Lapok	Hungary
Math. Ann.	Mathematische Annalen	Germany
Math. Comp.	Mathematics of Computation	USA
Math. Gaz.	Mathematical Gazette	Great Britain
Math. Nachr.	Mathematische Nachrichten	Germany
Math. Scand.	Mathematica Scandinavica	Denmark
Math. Stud.	Mathematics Students	India
Math. Tech. Wirtschaft	Mathematik, Technik, Wirtschaft (Zeitschrift für moderne Rechentechnik und Automation)	Austria
Math. Zeit.	Mathematische Zeitschrift	Germany
Meded. Landbhoogesch. Wageningen	Mededeelingen van de Langbouwhoogeschool, Wageningen	Netherlands
Mem. Coll. Sci., Kyoto	Memoirs of the College of Science, Kyoto (University)	Japan
Mem. Fac. Sci. A, *Kyushu*	Memoirs of the Faculty of Science (Series A), Kyushu (University)	Japan

Mém. Soc. Sci. Liége	Mémoires de la Société Royale des Sciences de Liége	Belgium
Metabolism	Metabolism	USA
Met. Mag., London	Meteorological Magazine	Great Britain
Metrika	Metrika	Germany
Metroeconomica	Metroeconomica	Italy
Metron	Metron	Italy
Mitt. Math. Gissen	Mitteilungen aus dem Mathematischen Seminar Gissen	Germany
Mitt. Ver. Schweiz. Versich.-Math.	Mitteilungen der Vereinigung Schweizerisher Versicherungs-Mathematiker	Switzerland
Monatsh. Math.	Monatshefte für Mathematik	Austria
Monthly Not. R. Astr. Soc.	Monthly Notices of the Royal Astronomical Society	Great Britain
Nat. Bur. Stand., Statist. Rep. & Publ.	National Bureau of Standards, Washington: Statistical Reports and Publications	USA
Nature	Nature (London)	Great Britain
Naturwiss.	Naturwissenschaften	Germany
Ned. Verzek. Actuar. Bij.	Nederlands Verzekeringsarchief, Actuarieel Bijvoegsel, The Hague	Netherlands
Nieuw Arch. Wisk.	Nieuw Archief voor Wiskunde, Groningen	Netherlands
Nieuw Tijdschr. Wisk.	Nieuw Tijdschrift voor Wiskunde, Groningen	Netherlands
Numer. Math.	Numerische Mathematik	Germany
Operat. Res.	Operations Research Society of America, Journal	USA
Operat. Res. Quart.	Operational Research Quarterly	Great Britain
Osaka Math. J.	Osaka Mathematical Journal, Osaka (University)	Japan
Öst. Ingen.-arch.	Österreichisches Ingenieurarchiv	Austria
Oxf. Econ. Papers	Oxford Economic Papers	Great Britain
Pacific J. Math.	Pacific Journal of Mathematics	USA
Pakistan Econ. J.	Pakistan Economic Journal	Pakistan
Phil. Mag.	Philosophical Magazine	Great Britain
Phil. Phenom. Res.	Philosophical and Phenomenological Research	Great Britain
Phil. Trans.	Philosophical Transactions of the Royal Society	Great Britain
Population Stud.	Population Studies	Great Britain
Portug. Math.	Portugaliae Mathematica	Portugal
Poultry Sci.	Poultry Science	USA
Proc. Amer. Math. Soc.	Proceedings of the American Mathematical Society	USA
Proc. Amer. Soc. Hort. Sci.	Proceedings, American Society for Horticultural Science	USA
Proc. Amer. Soc. Qual. Contr.	Proceedings of the American Society for Quality Control	USA
Proc. Amer. Soc. Test. Mat.	Proceedings of the American Society for Testing Materials	USA
Proc. Camb. Phil. Soc.	Proceedings of the Cambridge Philosophical Society	Great Britain
Proc. Indian Acad. Sci.	Proceedings of the Indian Academy of Sciences of India	India
Proc. Indian Ass. Cult. Sci.	Proceedings of the Indian Association for Cultivation of Science	India
Proc. Indian Sci. Congr.	Proceedings of the Indian Science Congress	India
Proc. Inst. Statist. Math., Tokyo	Proceedings of the Institute of Statistical Mathematics	Japan
Proc. Japan Acad.	Proceedings of the Japan Academy	Japan
Proc. Kon. Ned. Akad. Wetensch. A	Proceedings, Koninklijke Nederlandsche Akademie van Wetenschappen (A)	Netherlands
Proc. Lahore Phil. Soc.	Proceedings of the Lahore Philosophical Society	India
Proc. Lond. Math. Soc.	Proceedings of the London Mathematical Society	Great Britain
Proc. Math. Phys. Soc. Egypt	Proceedings of the Mathematical and Physical Society of Egypt	Egypt
Proc. Nat. Acad. Sci. India	Proceedings of the National Academy of Sciences of India	India
Proc. Nat. Acad. Sci. USA	Proceedings of the National Academy of Sciences of the USA	USA

Proc. Nat. Inst. Sci. India (A & B)	Proceedings of the National Institute of Sciences of India (Section A & B)	India
Proc. Pakistan Statist. Ass.	Proceedings of the Pakistan Statistical Association	Pakistan
Proc. Qual. Contr. Ass. Bangalore	Proceedings of the Quality Control Association, Bangalore	India
Proc. Roy. Irish Acad.	Proceedings of the Royal Irish Academy	Ireland
Proc. Roy. Soc. (A & B)	Proceedings of the Royal Society (Series A & B)	Great Britain
Proc. Roy. Soc. NSW	Proceedings of the Royal Society of N.S. Wales	Australia
Proc. Roy. Soc. NZ	Proceedings of the Royal Society of New Zealand	New Zealand
Proc. Soc. Exp. Biol., NY	Proceedings of the Society of Experimental Biology and Medicine	USA
Proc. Soil Sci. Soc. Amer.	Proceedings, Soil Science Society of America	USA
Przegl. Statyst.	Przeglad Statystyczny	Poland
Psychometrika	Psychometrika	USA
Public Health Rep.	Public Health Reports	USA
Public Opinion Quart.	Public Opinion Quarterly	USA
Publ. Inst. Mat. Estadíst. Fac. Ingen. Agric., Montevideo	Publicaciones del Instituto de Matemáticas y Estadística de la Facultad de Ingenieria y Agrimensura, Montevideo	Uruguay
Publ. Inst. Statist. Paris	Publications de l'Institut de Statistique de l'Université de Paris	France
Publ. Math., Debrecen	Publicationes Mathematicae	Hungary
Publ. Math. Inst. Hung. Acad. Sci.	Publications of the Mathematical Institute of the Hungarian Academy of Sciences	Hungary
Qualitätskontr. Operat. Res.	Qualitätskontrolle und Operational Research	Germany
Quart. J. Econ.	Quarterly Journal of Economics	USA
Quart. J. Exp. Physiol.	Quarterly Journal of Experimental Physiology	USA
Quart. J. Math.	Quarterly Journal of Mathematics, Oxford	Great Britain
Quart. J. Med.	Quarterly Journal of Medicine	Great Britain
Quart. J. R. Met. Soc.	Quarterly Journal of the Royal Meteorological Society	Great Britain
RAND Corp., Publ. & Rep.	RAND Corporation, Publications and Reports	USA
R.C. Accad. Lincei	Rendiconti dell'Accademia Nazionale dei Lincei	Italy
R.C. Circ. Mat. Palermo	Rendiconti del Circolo Matematico, Palermo	Italy
R.C. Mat. Univ. Roma	Rendiconti di Matematica e delle sue applicazioni	Italy
R.C. Semin. Sci. Cagliari	Rendiconti del Seminario della Facoltà di Scienze, Cagliari (University)	Italy
Rep. Statist. Appl. Res. (*JUSE*)	Reports of Statistical Application Research, Union of Japanese Scientists & Engineers	Japan
Research, Beirut	Research, American University, Beirut	Lebanon
Rev. Acad. Madrid	Revista de la Real Academia de Ciencias Exactas	Spain
Rev. Brasil. Estatist.	Revista Brasileira de Estatistica	Brazil
Rev. Cienc. Tucumán	Revista de Ciencias de la Universidad Nacional del Tucumán	Argentine
Rev. Écon.	Revue Économique	France
Rev. Econ. Statist.	Review of Economics and Statistics	USA
Rev. Econ. Stud.	Review of Economic Studies	Great Britain
Rev. Economia, Lisbon	Revista de Economia	Portugal
Rev. Estocást. Soc. Argent. Estadíst.	Revista Estocástica de la Sociedad Argentina de Estadística	Argentine
Rev. Fac. Cienc. Econ. Admin. Montevideo	Revista de la Facultad de Ciencias Economicas y de Administracion, Montevideo	Uruguay
Rev. Fac. Cienc. Lisboa, A	Revista da Faculdade de Ciencias de Lisboa, Série A —Matemática	Portugal
Rev. Int. Statist. Inst.	Review, International Statistical Institute	Netherlands
Rev. Mat. Hisp.-Amer.	Revista Matematica Hispano-Americana	Spain
Rev. Rech. Opérat.	Revue Française de Recherche Opérationelle	France
Rev. Sci., Paris	Revue Scientifique	France
Rev. Soc. Cubana Cienc. Fis. Mat.	Revista de la Sociedad Cubana de Ciencas, Fìsicas y Matemàticas	Cuba

Rev. Statist. Appl.	Revue de Statistique Appliquée	France
Ric. Sci.	Ricerca Scientifica	Italy
Riv. Int. Sci. Soc.	Rivista Internazionale di Science Sociali	Italy
Riv. Ital. Econ. Demogr. Statist.	Rivista Italiana di Economia Demografia e Statistica	Italy
Riv. Polit. Econ.	Rivista di Politica Economia	Italy
Sankhyā (A & B)	Sankhyā; Indian Journal of Statistics (Series A & B)	India
Schmollers Jb.	Schmollers Jahrbuch	Germany
Sch. Ver. Sozialpolit.	Schriften des Vereins für Sozialpolitik	Germany
Schweiz. Zeit. Volkwirtsch. Statist.	Schweizerische Zeitschrift für Volkwirtschaft und Statistik	Switzerland
Science	Science	USA
Science & Culture	Science and Culture	India
Scientia	Scientia	Italy
Scottish J. Polit. Econ.	Scottish Journal of Political Economy	Great Britain
Simon Stevin	Simon Stevin, Groningen	Netherlands
Skand. Aktuartidskr.	Skandinavisk Aktuarietidskrift	Sweden
Sociometry	Sociometry	USA
Soil Sci.	Soil Science	USA
South Africa J. Econ.	South African Journal of Economics	South Africa
Statistica, Bologna	Statistica	Italy
Statist. Nachr.	Statistische Nachrichten	Austria
Statist. Neerlandica	Statistica Neerlandica, Den Haag	Netherlands
Statist. Praxis	Statistische Praxis	Germany
Statist. Qual. Contr.	Statistical Quality Control	Japan
Statist. Rev. Belgrade	Statisticka Revija	Yugoslavia
Studi Mercato	Studi di Mercato	Italy
Studia Math.	Studia Mathematica	Poland
Studies Inst. Med. Res.	Studies of the Rockefeller Institute for Medical Research	USA
Sugaku	Sugaku (Mathematical Society of Japan)	Japan
Tech. News, Nat. Bur. Stand.	Technical News Letter, National Bureau of Standards, Washington	USA
Tech. Publ., Amer. Soc. Test. Mat.	Technical Publications, American Society for Testing Materials	USA
Tech. Rep., CSIRO, Aust.	Technical Reports, Commonwealth Scientific & Industrial Research Organisation	Australia
Technometrics	Technometrics	USA
Teor. Veroyat. Primen.	Teoriia Veroyatnostey i ee Primenenia	USSR
Textile Res.	Textile Research	USA
Tobacco Sci.	Tobacco Science	USA
Trans. Amer. Math. Soc.	Transactions of the American Mathematical Society	USA
Trab. Estadíst.	Trabajos de Estadística	Spain
Trans. Edinb. Math. Soc.	Transactions of the Edinburgh Mathematical Society	Great Britain
Trans. Fac. Actuar., Edinb.	Transactions of the Faculty of Actuaries	Great Britain
Trans. Manchester Statist. Soc.	Transactions of the Manchester Statistical Society	Great Britain
Trans. Nat. Inst. Sci. India	Transactions of the National Institute of Sciences of India	India
Trans. N.Y. Acad. Sci.	Transactions of the New York Academy of Science	USA
Trans. Roy. Soc. NZ	Transactions of the Royal Society, N. Zealand	New Zealand
Trans. Soc. Actuar., Chicago	Transactions of the Society of Actuaries	USA
Ukrain. Mat. Z.	Ukrainskij Matematiceskij Zurnal	USSR
UN (FAO) Tech. Publ.	United Nations (Food and Agricultural Organisation) Technical Publications	Italy
UN Statist. Publ.	United Nations: Statistical Office Publications	USA
Univ. Calif. Pub. Statist.	University of California Publications in Statistics	USA
Unternehmensforschung	Unternehmensforschung (Operations Research)	Germany
US Census Publ.	US Bureau of the Census, Publications	USA

U.S. Dept. Agric., Publ.	U.S. Department of Agriculture, Publications	USA
Verh. Kon. Belg. Akad. II	Verhandelingen. Koninklijke Belgische Akademie (Serie 2)	Belgium
Verh. Vlaamse Akad. Belg.	Verhandelingen. Koninklijke Vlaamsche Akademie	Belgium
Vitamins & Hormones	Vitamins and Hormones	USA
Weltwirts. Arch.	Weltwirtschaftliches Archiv	Germany
Wirtsch. und Statist.	Wirtschaft und Statistik	Germany
Yorkshire Bull. Econ. Soc. Res.	Yorkshire Bulletin of Economic and Social Research	Great Britain
Zastosowania Mat.	Zastosowania Matematyki	Poland
Zeit. angew. Math. Mech.	Zeitschrift für angewandte Mathematik und Mechanik	Germany
Zeit. angew. Math. Phys.	Zeitschrift für angewandte Mathematik und Physik	Switzerland
Zeit. ges. Staatswiss.	Zeitschrift für die gesamte Staatswissenschaft	Germany
Zeit. Handelswiss. Forsch.	Zeitschrift für Handelswissenschaftliche Forschung	Germany
Zeit. Nat.-Ökon.	Zeitschrift für Nationalökonomie	Austria
Zeit. Vererbungs.	Zeitschrift für Vererbungslehre	Germany
Zeit. Wahrscheinlichkeitsth.	Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete	Germany

The short titles given above are based upon the principles stated in the League of Nations report *International Code of Abbreviations for Titles of Periodicals* (1930) and its *Supplement* (1932) as also used in the *World List of Scientific Periodicals*

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BIBLIOGRAPHIC NOTES

1

THE following schedule gives those abstracts of papers where the number of quoted references is twenty or more; exception is made for papers which are classified **11.9** (Bibliography).

	No.		refs.
0. Mathematical Methods			
Ferreri	3/301	**0.2**	39
1. Probability			
Rényi	3/5	**1.0**	40
Schmetterer	3/507	**1.7**	36
2. Frequency Distributions			
Linnik	3/10	**2.1**	80
Tukey	3/15	**2.8**	49
Grimm	3/333	**2.5**	21
3. Sampling Distributions			
Ludwig	3/21	**3.8**	25
Bell	3/339	**3.8**	29
4. Estimation			
Buehler	3/344	**4.4**	22
van der Vaart	3/558	**4.1**	30
5. Hypothesis testing			
Anscombe	3/37	**5.5**	23
Lancaster	3/51	**5.1**	21
Siegal & Tukey	3/54	**5.6**	20
Bartholomew	3/184	**5.2**	23
Ferreri	3/364	**5.6**	25
Cox	3/564	**5.2**	25
Steel	3/577	**5.6**	21
6. Relationships			
Okamoto	3/217	**6.4**	33
Pol	3/219	**6.2**	157
Ishii	3/589	**6.9**	30
Wold	3/595	**6.6**	89
7. Variance Analysis			
Plackett	3/232	**7.0**	47
Kempthorne *et al.*	3/399	**7.3**	48
Anscombe	3/597	**7.5**	21
8. Sampling Design			
Dalenius *et al.*	3/603	**8.6**	27
Smid	3/609	**8.0**	20
9. Design of Experiments			
Tallini	3/100	**9.2**	52
Lucas	3/250	**9.1**	24
Rao	3/251	**9.1**	21
Curnow	3/420	**9.4**	27
Gridgeman	3/423	**9.6**	22
Box	3/613	**9.3**	22
Federer	3/617	**9.1**	25
10. Stochastic Theory and Time Series			
Chung	3/107	**10.1**	22
De Ghellinck	3/266	**10.0**	20
Kremser	3/445	**10.4**	25
Seidler	3/453	**10.5**	22
Bellman	3/625	**10.2**	31
Finch	3/636	**10.4**	21
Fortet	3/638	**10.2**	43
Kitagawa	3/649	**10.1**	27
Yaglom	3/669	**10.0**	32
11. Miscellaneous			
Dagum	3/124	**11.0**	21
Nat. Bur. Stds.	3/128	**11.1**	52
Harter	3/672	**11.1**	28
Savage	3/674	**11.0**	29

2

Papers which contain tables of useful statistical functions other than those classified **11.1** (Statistical Tables and Charts).

	No.		
1. Probability			
Castoldi	3/1	**1.3**	Combinatorial problems of Banach: $n \geqq 50$, $r \geqq 30$
2. Frequency Distributions			
Sandiford	3/12	**2.4**	Cumulative binomial probabilities: finite sampling
Shumway & Gurland	3/12	**2.5**	Fitting generalised Poison distributions
Tukey	3/15	**2.8**	Contaminated distributions: sampling statistics
Harter	3/149	**2.3**	Circular error probabilities
Fisher & Cornish	3/329	**2.7**	Percentage points of distributions using cumulants
DiDonato & Jarnagin	3/517	**2.3**	Bivariate normal distribution
3. Sampling Distributions			
Ludwig	3/21	**3.8**	Expected values of order statistics: Γ and other distributions
Hogben *et al.*	3/159	**3.2**	Non-central t-distribution: moments and cumulants
James	3/341	**3.9**	Covariance matrix: zonal polynomials and other constants
John	3/534	**3.9**	Multivariate t-distribution: probability integral
Kitagawa	3/535	**3.8**	Fractile graphical method
4. Estimation			
Clark & Williams	3/166	**4.3**	Censored samples
Greenwood & Durand	3/348	**4.3**	Gamma distribution fitting
Shenton & Wallington	3/557	**4.1**	Negative binomial: bias of moment estimators
5. Hypotheses Testing			
Siegal & Tukey	3/54	**5.6**	Rank-sum test: unpaired samples

Sukhatme	3/55	**5.6**	Two-sample non-parametric tests: power function
Terry	3/56	**5.3**	Two-sample rank test
Asano	3/183	**5.3**	Power function charts: bio-assay
Bartholomew	3/184	**5.2**	Homogeneity of means: power functions of tests
Cohen	3/190	**5.6**	Binomial sign test
Colton	3/191	**5.2**	Modified normal test and t-test: power functions
Ishii & Yamasahi	3/198	**5.4**	Binomial tests: homogeneity based on range
Keuls	3/199	**5.2**	F-test: nomograms for power and replications
Quesenberry & David	3/201	**5.5**	Outlier tests
Zinger	3/206	**5.4**	Outlying (normal) populations
Ansari & Bradley	3/359	**5.6**	Rank-sum test for dispersion
Bennet & Hsu	3/360	**5.3**	Behrens-Fisher test: power function
Pachares	3/369	**5.2**	Variance of normally distributed population: tests
Ray & Pitman	3/371	**5.2**	Fisher-Behrens-Welch statistic
Sadowski	3/372	**5.4**	Dispersions: non-parametric test
Steel	3/373	**5.6**	All pairs of treatments: rank-sum test
Ferguson	3/569	**5.5**	Outlier tests
Steel	3/597	**5.6**	Multiple comparisons: rank-sum tests
6. Relationships			
Glasser & Winter	3/213	**6.5**	Rank correlation coefficient
Hays	3/216	**6.5**	Index of concordance
7. Variance Analysis			
Gupta & Sobel	3/81	**7.7**	Best binomial population: selection of subset
8. Sampling Design			
Young	3/411	**8.1**	Significance levels stratified in random sampling
9. Stochastic Theory & Time Series Analysis			
Koenigsberg	3/650	**10.4**	Finite and cyclic queues: efficiencies and other measures

3

Analysis of data from life tests, reliability, etc.

This note does not pretend to include a reference to abstracts of all papers which could be relevant to the analysis of observations arising from life tests, service experience or reliability assessment. Problems of this kind can be of a very general character and make use of a wide range of statistical techniques for which the current literature is abstracted in this journal. However, there are papers on certain statistical methods which have a major relevance to the kind of problems under discussion and other papers which are written with specific reference to these problems. Accordingly, it is these papers that are included in the following paragraphs.

Concerning some standard statistical procedure for distributions of special interest in life testing, No. 3/34 Rider (**4.3**) dealt with the method of moments for the case of two exponential distributions mixed in proportions p and $q = 1-p$. For estimating the rule parameter of an exponential distribution making use of quantities, No. 3/173 Ogawa (**4.3**) dealt with the optimum spacing of observations. The form of the best linear unbiased estimator is given together with a table of its coefficients. The maximum likelihood estimators of parameter in the Pearson Type III (gamma) distribution are difficult to achieve in practice. New tables to overcome most of the difficulties of existing tubular aids were given in No. 3/348 Greenwood & Durand (**4.3**).

Turning now to the topic of order statistics a paper of general interest was No. 3/156 Gumbel (**3.8**) on the return period of order statistics. The expected values and variances of order statistics in small samples were treated in No. 3/21 Ludwig (**3.8**) and applied to samples of two and three items from the gamma distribution. Four papers on two-sample tests were No. 3/197 Ishii (**5.3**); No. 3/579 Vincze (**5.3**); No. 3/56 Terry (**5.3**) and No. 3/55 Sukhatme (**5.6**): the latter two papers were concerned with aspects of the power of the tests. Finally in this section No. 3/46 Dwass (**5.4**) gave two procedures for extending two-sample tests to the case of k-samples.

In the field of study generally associated with the life table the second and third parts appeared of a study for which the abstract of the first part was No. 2/555 Chiang (**10.9**)—see Index & Review Supplement (1961) **2**, xxx. The second part of this stochastic study of the life table, No. 3/262 Chiang (**10.9**) covered the sample variance of the expectation of life, etc., and the final part, No. 3/263 Chiang (**10.9**) dealt with the problem of follow-ups and problem of competing risks.

Only three papers appeared on the topic of censored samples: No. 3/351 Halperin (**4.4**) on confidence intervals in the case of one-sided censored samples from a normally distributed population: No. 3/166 Clark & Williams (**4.3**) on parameter estimation for Cauchy, exponential, normal and gamma distributions and No. 3/245 Nadler (**8.6**) on inverse binomical sampling plans for censored samples from an exponentially distributed population.

Apart from a group of papers on outlying observations and populations, there were three other papers of importance. The first No. 3/58 Zelen (**5.2**) deals with the methods of analysis appropriate for a two-factor life test. The assumption of an exponential population is made as also in No. 3/377 Zelen & Dannemiller (**5.1**) which investigated the robustness of some current procedure for the case where the time distribution is of the Weibull type. The third paper, No. 3/17 Watson & Wells (**2.5**) discussed the possibilities of improving the average life by eliminating items with short lives. Conditions for this are examined in relation to the Weibull gamma, exponential, extreme

value and log-normal distributions. The group of papers on the method of treatment appropriate for outlying observations were No. 3/201, Quesenberry & David (**5.5**); No. 3/569 Ferguson (**5.5**); No. 3/567 de Finetti (**5.5**); No. 3/50 Kruskal (**5.5**); No. 3/43 Bross (**5.5**); No. 3/37-38.39 Anscombe (**5.5**) and No. 3/44-45 Daniel (**5.5**): papers by the last four authors formed a small symposium. One paper on outlying populations, as distinct from individual observations, was No. 3/306 Zinger (**5.4**) which also included selection of the " best " population.

These papers only mentioned in this volume were directly related to the question of system or component reliability. In connection with the latter, No. 3/457 Weiss (**10.1**) discussed the vital problem of the effect of cumulative damage. The other two, No. 3/153 Morrison & David (**2.9**) and No. 3/337 Morrison (**2.5**) dealt with aspects of reliability of a system with spare components and the optimum allocation of spare components in systems.

4

Statistical Genetics

In this third volume of statistical theory abstracts there have been the following general papers largely concerned with the distribution of populations:

Castoldi	3/103	**10.1**	Genetics of populations
Consael	3/435	**10.9**	Mathematics theory of populations
Williams	3/458	**10.9**	Distribution of larvae from randomly moving insects
Williams	3/459	**10.9**	Growth and age distribution of a population

In connection with specific statistical methods used in the field of statistical genetics, the following papers are of interest:

Curnow	3/548	**4.3**	Estimation of repeatability and heritability with cutting
Bohren *et al.*	3/208	**6.1**	Efficiency of heritability estimator: Regression of offspring on parent
McKean & Bohres	3/389	**6.1**	Regression of offspring on parent: numerical aspects
van Vleck & Henderson	3/393	**6.2**	Genetic correlations: empirical sampling estimates
Searle	3/392	**6.2**	Phenotypic, genetic and environmental correlation
Kempthorne & Curnon	3/82	**7.2**	Components of variance: partial diallel cross

There was only one item in this volume on selection methods:

Le Roy	3/231	**7.6**	Artificial selection on quantitative characters

but a few papers on stochastic processes should be recorded here:

Wette	3/122	**10.1**	Target theory analysis of virus inactivation
Ewens & Gani	3/434	**10.9**	Absorption probabilities
Gani	3/639	**10.9**	Branching processes for extinction of bacterial colony

Random Graphs

Four more papers on this topic have appeared in the third volume of these abstracts, as follows:—

Erdös & Rényi	3/139	**1.3**	Evolution of random graphs
	3/487	**1.4**	Hamiltonian paths and circuits in theory of graphs
	3/502	**1.3**	Isolated subgraphs of a chromatic random graph
De Ghellinck	3/266	**10.0**	Application of theory of graphs

5

Miscellaneous Items of Interest

From time-to-time a paper appears which either uses a new statistical term, sometimes of a descriptive character, or mentions a practical use for new results in an unexpected direction. During the volume under review there appeared three abstracts of papers dealing with the fractile graphic method of analysis. These papers developed aspects of the original lectures by Mahalanobis given in Japan in 1958. Sampling distributions of statistics associated with the method were considered in No. 3/535 Kitagawa (**3.8**). Limit theorems were dealt with in No. 3/220 Sethuraman (**6.1**) and properties of the error area in No. 3/72 Takeuchi (**6.1**).

Two items reporting papers referring to statistical techniques by unusual and/or descriptive terms are:

Tukey	3/15	**2.8**	Contaminated distributions sampling problems and robustness
Goodman	3/29	**4.9**	Snowball sampling

From a paper concerning the problems of one-dimensional random space filling, comes the unexpected indication that the results can be fundamental to the study of car parking problems: particularly when the parking place consists of a curb or series of curbs rather than an area for diagonal parking. The problem was solved for the case of unit intervals in No. 1/18, Rényi (**1.4**), modified by Bánkövi (**11.7**) for intervals of variable length and using Monte Carlo methods, and generalised in No. 3/484 Bánkövi & Dobó (**1.4**).

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